



1637 \$

PTO/SB/21 (05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/017,880
	Filing Date	December 13, 2001
	First Named Inventor	Nurith KURN
	Art Unit	1637
	Examiner Name	A. Spiegler
Total Number of Pages in This Submission	9 + 45 refs	Attorney Docket Number 492692000300

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form – in duplicate (2 pgs) <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (Supplemental – 3 pgs) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO-1449 (3 pgs) 45 Reference Return receipt postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	MORRISON & FOERSTER LLP Cara M. Coburn - 46,631	CUSTOMER NUMBER: 25226
Signature		
Date	September 23, 2003	



PATENT
Docket No. 492692000300

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 23, 2003.

Denise Lade

Denise Lade

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Nurith KURN

Serial No.: 10/017,880

Filing Date: December 13, 2001

For: METHODS AND COMPOSITIONS FOR
GENERATION OF MULTIPLE COPIES
OF NUCLEIC ACID SEQUENCES AND
METHODS OF DETECTION THEREOF

Examiner: A. Spiegler

Group Art Unit: 1637

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97 AND § 1.978**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

10/01/2003 NROCHA1 00000013 031952 10017880

01 FC:1686

100.00 DA

This Supplemental Information Disclosure Statement is submitted:

- ☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☒ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of ____ is enclosed.
 - ☒ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of ____ is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.


Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

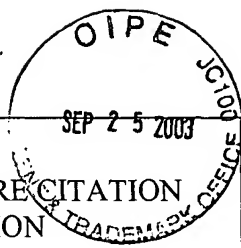
In the unlikely event that the fee transmittal is separated from this document and/or the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 492692000300. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: September 23, 2003

Respectfully submitted,

By: 
Cara M. Coburn
Registration No. 46,631

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5740
Facsimile: (650) 494-0792



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 492692000300

Application Number 10/017,880

Applicant

Nurith KURN

Filing Date December 13, 2001

Group Art Unit 1637

Mailing Date September 23, 2003

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	03/29/2001	2001/0000077	Engelhardt et al.			
	2.	05/16/2002	2002/0058270	Kurn			
	3.	08/22/2002	2002/0115088	Kurn			
	4.	01/23/2003	2003/0017591	Kurn			
	5.	05/08/2003	2003/0087251	Kurn			
	6.	12/07/1976	3,996,345	Ullman and Schwarzburg			
	7.	07/28/1987	4,683,194	Saiki and Erlich			
	8.	04/28/1998	5,744,308	Guillou-Bonnici et al.			
	9.	12/08/1998	5,846,710	Bajaj			
	10.	12/15/1998	5,849,547	Cleuziat et al.			
	11.	02/16/1999	5,871,697	Rothberg et al.			
	12.	09/28/1999	5,958,681	Wetmur et al.			
	13.	04/17/2001	6,218,151	Cleuziat et al.			
	14.	10/30/2001	6,309,842	Dower et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
	15.	04/28/1982	EP 0 050 424	Europe				
	16.	09/16/1987	EP 0 237 362	Europe				
	17.	06/14/1989	EP 0 320 308	Europe				
	18.	05/02/1990	EP 0 365 627	Europe				
	19.	08/05/1992	EP 0 497 272	Europe				
	20.	09/23/1992	EP 0 505 012	Europe				
	21.	08/16/1995	EP 0 667 393	Europe				
	22.	11/18/1998	EP 0 878 553	Europe				
	23.	11/29/2000	EP 1 055 736	Europe				
	24.	01/27/1995	JP 07-023799	Japan			Abstract	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 492692000300

Application Number 10/017,880

Applicant

Nurith KURN

Filing Date December 13, 2001

Group Art Unit 1637

Mailing Date September 23, 2003

	25.	02/02/1995	WO 95/03426	WIPO			Abstract	
	26.	02/06/1997	WO 97/04126	WIPO			Abstract	
	27.	07/02/1998	WO 98/28443	WIPO				
	28.	04/15/1999	WO 99/18241	WIPO				
	29.	06/17/1999	WO 99/29901	WIPO				
	30.	08/12/1999	WO 99/40219	WIPO				
	31.	11/23/2000	WO 00/70095	WIPO				
	32.	01/03/2002	WO 02/00938	WIPO				
	33.	04/11/2002	WO 02/29117	WIPO				
	34.	06/20/2002	WO 02/48402	WIPO				
	35.	09/19/2002	WO 02/072772	WIPO				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	36.	Ausubel, F.M. et al., Eds. (1995). <u>Current Protocols in Molecular Biology</u> . John Wiley & Sons, Inc. pp. iii-xii (Table of Contents).
	37.	Fu, Dong-Jing et al., (1997) "Sequencing Double-Stranded DNA by Strand Displacement" <i>Nucleic Acids Research</i> 25(3):677-679.
	38.	Guatelli, J. C. et al. (1990). "Isothermal, <i>in vitro</i> Amplification of Nucleic Acids by a Multienzyme Reaction Modeled After Retroviral Replication," <i>Proc. Natl. Acad. Sci. USA</i> 87:1874-1878.
	39.	Lishanski, A. et al. (2000). "Branch Migration Inhibition in PCR-Amplified DNA: Homogeneous Mutation Detection," <i>Nucleic Acids Research</i> 28(9):E42, pp. i-vii.
	40.	Orita, M. et al. (1989). "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> 86(8):2766-2770.
	41.	Orita, M. et al. (1989). "Rapid and Sensitive Detection of Point Mutations and DNA Polymorphisms Using the Polymerase Chain Reaction," <i>Genomics</i> 5:874-879.
	42.	Patel, R. et al. (1996). "Formation of Chimeric DNA Primer Extension Products by Template Switching Onto an Annealed Downstream Oligonucleotide," <i>Proc. Natl. Acad. Sci. USA</i> 93:2969-2974.
	43.	Sarkar et al. (1992). "Screening for Mutations by RNA Single-Strand Conformation Polymorphism (rSSCP): Comparison with DNA-SSCP," <i>Nucleic Acids Research</i> 20(4):871-878.
	44.	Suzuki, Y. et al. (1990). "Detection of <i>ras</i> Gene Mutations in Human Lung Cancers by Single-Strand Conformation Polymorphism Analysis of Polymerase Chain Reaction Products," <i>Oncogene</i> 5:1037-1043.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

pa- 794938

PTO/SB/ 08 (2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 492692000300	Application Number 10/017,880
		Applicant Nurith KURN	
		Filing Date December 13, 2001	Group Art Unit 1637
		Mailing Date September 23, 2003	
	45.	Walker, G. T. et al. (1992). "Isothermal <i>in vitro</i> Amplification of DNA by a Restriction Enzyme/DNA Polymerase System," <i>Proc. Natl. Acad. Sci. USA</i> 89:392-396.	
<div data-bbox="194 567 431 806" data-label="Image"></div>			
EXAMINER:		DATE CONSIDERED:	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			
pa- 794938 PTO/SB/ 08 (2-92)			

SEP 25 2003

PTO/SB/17 (05-03)

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL

for FY 2003

Effective 01/01/2003, Patent fees are subject to annual revision.

X Applicant claims small entity status. See 37 CFR 1.27

Complete if Known

Application Number	10/017,880
Filing Date	December 13, 2001
First Named Inventor	Nurith KURN
Examiner Name	A. Spiegler
Art Unit	1637
Attorney Docket No.	492692000300

METHOD OF PAYMENT (check all that apply)

<input type="checkbox"/>	Check	<input type="checkbox"/>	Credit Card	<input type="checkbox"/>	Money Order	<input type="checkbox"/>	Other	<input type="checkbox"/>	None
--------------------------	-------	--------------------------	-------------	--------------------------	-------------	--------------------------	-------	--------------------------	------

X	Deposit Account
---	-----------------

Deposit
Account
Number

03-1952

Deposit
Account
Name

Morrison & Foerster LLP

The Director is hereby authorized to: *(check all that apply)*

<input checked="" type="checkbox"/>	Charge fee(s) indicated below	<input checked="" type="checkbox"/>	Credit any overpayments
-------------------------------------	-------------------------------	-------------------------------------	-------------------------

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)	(\$)	0.00
---------------------	-------------	-------------

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid
Total Claims	186	-192** =	0	x	9	=	0.00
Independent Claims	14	-16** =	0	x	42	=	0.00
Multiple Dependent					140	=	0.00

Large Entity		Small Entity		<u>Fee Description</u>
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)	(\$)	0.00
---------------------	-------------	-------------

****or number previously paid, if greater; For Reissues, see above**

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge – late filing fee or oath	
1052	50	2052	25	Surcharge – late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive – unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid	SUBTOTAL (3)	(\$)	180.00
-----------------------------------	---------------------	-------------	---------------

SUBMITTED BY

Name (Print/Type)	Cara M. Coburn
-------------------	----------------

Signature

Cara Column

Registration No.
(Attorney/Agent)

146,631

Complete (if applicable)

Telephone	(650) 813-4218
-----------	----------------

Date _____

September 23, 2003